CLAIMS

What is claimed is:

1. A method, comprising:

detecting whether a floppy disk operation is a write; and,
masking DMA requests from at least one DMA channel during said write
thereby preventing data corruption.

- 2. The method of claim 1, wherein said masking DMA requests is only during a portion of said write.
- 3. The method of claim 1, wherein said masking DMA requests is during all of said write.
- 4. The method of claim 1, wherein said detecting and said masking is accomplished by said floppy disk driver routine.
 - 5. The method of claim 1, wherein said masking is accomplished by a timer interrupt service routine.
 - 6. The method of claim 1, comprising: providing a timer interrupt service routine that accomplishes said masking.
 - 7. The method of claim 6, comprising: reprogramming a timer to interrupt at a more rapid rate.

- 8. The method of claim 6, comprising: reading a DMA byte count.
- 9. The method of claim 8, comprising: accomplishing said masking after said DMA byte count reaches a threshold.
- 10. The method of claim 8, comprising:estimating when said write will complete from said DMA byte count.
- 11. The method of claim 10, wherein said estimating includes a linear interpolation.
- 12. The method of claim 10, wherein said estimating includes a least squares fit method.
- 13. The method of claim 10, wherein said estimating includes a polynomial fit method.
 - 14. The method of claim 10, comprising:determining a time to accomplish said masking based upon a result of said step of estimating.

- 15. An apparatus, comprising:
- a floppy disk controller receiving data via DMA accesses under the control of a DMA controller wherein said DMA controller ignores at least one DMA request line when an underrun error may occur.
- 16. The apparatus of claim 15 wherein said DMA controller ignores said at least one DMA request line for a transfer of data comprising a whole sector.
- 17. The apparatus of claim 15 wherein said DMA controller ignores said at least one DMA request line for a transfer of data comprising less than a whole sector.
- 18. The apparatus of claim 15 wherein said DMA controller ignores said at least one DMA request line after a threshold number of bytes have been transferred.
- 19. The apparatus of claim 15 wherein said DMA controller ignores said at least one DMA request line after a first time period has elapsed.
- 20. The apparatus of claim 15 wherein said DMA controller ignores said at least one DMA request line a second time period before a transfer of a last byte.
- 21. The apparatus of claim 20 wherein said second time period is based upon an estimate of when said transfer of said last byte will occur.

- 22. The apparatus of claim 21 wherein said estimate is derived by monitoring a DMA byte count.
- 23. The apparatus of claim 21 wherein said estimate is derived by monitoring a system clock.
- 24. The apparatus of claim 21 wherein said estimate is based upon samples taken of a DMA byte count and a system clock.
- 25. The apparatus of claim 24 wherein said samples are interpolated linearly to produce said estimate.
- 26. The apparatus of claim 24 wherein said samples are input to a least squares fit process to produce said estimate.
- 27. The apparatus of claim 24 wherein said samples are input to a polynomial curve fitting process to produce said estimate.
- 28. An apparatus, comprising:
- a DMA controller in communication with a floppy disk controller; and, means for masking at least one DMA request line when a DMA underrun may occur due to an improperly designed floppy disk controller.

- 29. The apparatus of claim 28 wherein said at least one DMA request line is masked based upon an estimate generated by a means for estimating.
- 30. The apparatus of claim 29 wherein said means for estimating includes means for linear interpolation.
 - 31. The apparatus of claim 29 wherein said means for estimating includes means for performing a least squares fit analysis.
 - 32. The apparatus of claim 29 wherein said means for estimating includes means for performing a polynomial fit analysis.
- 33. A program storage medium readable by a computer, tangibly embodying a program of instructions executable by a computer to perform method steps, said method steps comprising:

detecting whether a floppy disk operation is a write; and,
masking DMA requests from at least one DMA channel during said write
thereby preventing data corruption.

- 34. The program storage medium of claim 33, wherein said masking DMA requests is only during a portion of said write.
- 35. The program storage medium of claim 33, wherein said masking DMA requests is during all of said write.

- 36. The program storage medium of claim 33, wherein said detecting and said masking is accomplished by said floppy disk driver routine.
 - 37. The program storage medium of claim 33, wherein said masking is accomplished by a timer interrupt service routine.
 - 38. The program storage medium of claim 33, comprising: providing a timer interrupt service routine that accomplishes said masking.
 - 39. The program storage medium of claim 38, comprising: reprogramming a timer to interrupt at a more rapid rate.
 - 40. The program storage medium of claim 38, comprising: reading a DMA byte count.
 - 41. The program storage medium of claim 40, comprising: accomplishing said masking after said DMA byte count reaches a threshold.
 - 42. The program storage medium of claim 40, comprising: estimating when said write will complete from said DMA byte count.
- 43. The program storage medium of claim 42, wherein said estimating includes a linear interpolation.

- 44. The program storage medium of claim 42, wherein said estimating includes a least squares fit method.
- 45. The program storage medium of claim 42, wherein said estimating includes a polynomial fit method.
 - 46. The program storage medium of claim 42, comprising:

 determining a time to accomplish said masking based upon a result of said step of estimating.